

RETURN TO DEPT 58 FILE.

LUTHER'S

DIMO-GRIT
THE WHEEL FOR STEEL

GRINDERS

MILWAUKEE • • WIS.
• U • S • A •

SECTIONAL
CATALOGUE

Rec'd Aug. 24, 1925.

LUTHER Grinders and Vises

The word "Luther" is written in a bold, black, cursive script. The letters are thick and connected, with a prominent underline that sweeps across the bottom of the word.

CATALOG No. 35

Oldest and Largest Manufacturers of Hand
power, Foot power, Bench and Pedestal belt
driven and Electric motor driven Grinders.

**LUTHER GRINDER
MANUFACTURING COMPANY**

285 So. Water St.

Milwaukee, Wis., U. S. A.

The Luther Line of Tool Grinders and Vises has been developed during a period of thirty years.

Many different models have been designed to meet a variety of requirements, as well as specific demands. The machines shown in this catalog represent those models which have proven to be especially efficient.

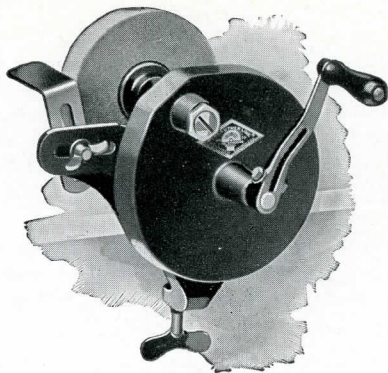
DIMO-GRIT is our trade-name, applying to our sharpening substances. This abrasive is of a hardness equaled only by the diamond itself. Any Dimo-Grit wheel properly used will never draw the temper nor injure even the finest tools.

DIMO-GRIT, which is tan colored, is technically known as aluminum oxide; it is the best known substance for grinding steel and other metals of high tensile strength. It is not only hard and sharp, but extremely tough, and stands up well under the most severe use.

CARBI-GRIT, is bluish-gray in color, and is technically known as carbide of silicon. It is adapted for the grinding of metals of low tensile strength, such as cast iron, brass, etc.

Luther Grinders equipped with DIMO-GRIT wheels are therefore best suited for the general grinding of tools, including knives, chisels, plane bits, etc., and will give the best satisfaction.

Mechanics' Special Grinders



A special line of tool sharpeners made for the particular carpenter, mechanic, garage man, or any one who enjoys owning a good serviceable grinder with which to keep edged tools, knives, etc., in the best of condition. *

Ideal for general all around grinding and sharpening. Special design and extra heavy construction—built to last a lifetime.

Equipment.

Nos.	14	15	16	17
Wheel size	4x1x1	5x1x1	6x1x1	7x1½x1
Work rest	R114	R114	T20	T20
Weight packed.....	9 lbs.	12½ lbs	16 lbs.	25 lbs.

The T20 chisel and plane bit holding attachment can be used on the 14 and 15; this is extra equipment.

Our 186A twist drill sharpening attachment can be used on the 15, 16 and 17 only. This also is extra equipment. Will take drills up to 1½-inch in diameter.

Foot power attachment can be furnished, 127A for 14, 15 and 16, and 129A for 17.

(See other side for mechanical description.)

Mechanical Description.

One-piece gear case. Special designed case. All bearings drilled and reamed in a special jig. Gear and pinion cannot become out of alignment as the bearings cannot shift. Bearings are large and afford the best known bearing contact of steel against cast iron; with proper lubrication parts will last a lifetime.

Ball bearing end thrust. An exclusive feature. Eliminates end play in wheel shaft. Easily adjusted. Reduces friction and makes grinder smoother and easier to operate.

Gear. Special basket or cupped gear. Used only in the Mechanics' Special grinders. Driving strain placed over center of bearings instead of at end. Vibration is reduced by providing a crank shaft and shaft bearing 50% longer than in other types.

Pinion, or wheel shaft, made from cold rolled steel bar stock, accurately machined, ground to size. Helical cut teeth.

Crank shaft, made of cold rolled steel, bar stock. Ground to size.

Crank. Split malleable type, with large wood grip.

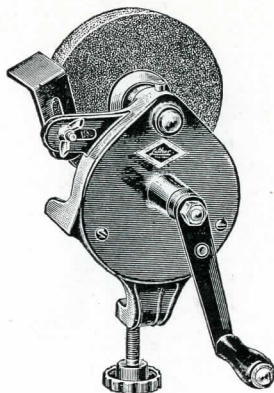
Clamp, or cover, good quality grey iron, sturdy construction. Improved type thumb screw; wheel fits the hand.

Work rest. Fully adjustable, special type, used only on this type of grinder. Spring oilers, self closing type. Turned steel flange; stamped steel stone washer.

Durable and attractive enamel finish.

Standard Line

Nos. 24, 25, 26 and 27.



Well built and sturdy construction, dust-proof gear case. For general tool grinding, knives, etc., in the home, work shop or garage.

Compare these features:

One piece case construction; all working parts and bearings in one housing, which insures proper alignment.

Gear and pinion teeth helical machine cut; makes a better and easier running grinder than the spur tooth type construction.

Keyed driver on handle shaft, with stamped steel crank and large wood grip.

Adjustable work rest; steel thumb screw; steel flange and washer; self-closing spring oiler.

Good enamel finish.

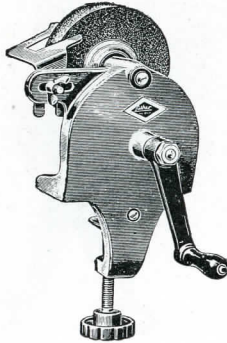
Packed complete one in carton.

Four sizes:

Number	24	25	26	27
Size wheel.....	4x1x1	5x1x1	6x1x1	7x1x1
Shipping weight	6 lbs.	7 lbs.	10 lbs.	11 lbs.

Domestic or Household Grinder

No. 34.



No. 34 Grinder is made especially for household use; knives, scissors, small tools, etc., can be sharpened easily and quickly.

Some of the quality features are:

One piece case construction, all bearings in one housing.

Machine cut helical gear and pinion.

Fine grain 4 inch DIMO-GRIT grinding wheel;
good cutting qualities.

Special turned steel flange.

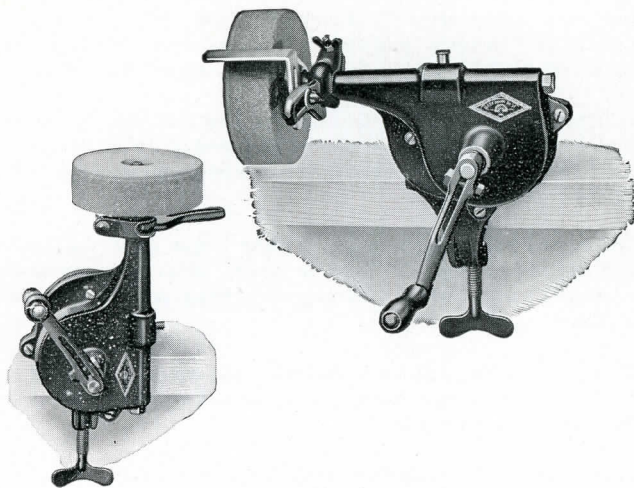
Attractive enamel finish.

The combination scissor and knife guide is made especially for this grinder; the side of the wheel is used, and wheel revolved toward the cutting edge when grinding.

Packed complete, one in a carton, shipping weight 5 lbs.

Best Maide Grinders

Nos. 50, 51 and 52.



Regular Equipment.

Combination grit, Dimeo-Grit grinding wheels, as shown below.

No. R13, adjustable work rest.

W9 wrench for wheel nut.

Extra Equipment.

No. 1007 B Chisel and Plane Bit holding attachment.

Best Maide Nos....	50	51	52
Size of wheel.....	$4 \times 1\frac{1}{2} \times \frac{7}{16}$	$5 \times 1\frac{1}{2} \times \frac{7}{16}$	$6 \times 1\frac{1}{2} \times \frac{7}{16}$
Net weight.....	9½ lbs.	10½ lbs.	11½ lbs.
Shipping weight...	14 lbs.	15 lbs.	16 lbs.

(See other side for mechanical description.)

Mechanical Description.

One-piece gear case. All bearings drilled and reamed in a special jig; insures positive and permanent alignment of gear and pinion. Bearings chambered special for oiling.

Ball bearing end thrust to take up any end play in wheel shaft. Enclosed ball race placed in housing on shaft to reduce friction; also makes grinder easier to operate, and quieter.

Pinion, or wheel shaft, made of cold rolled steel, machined and ground to size. Helical cut teeth, parts of three teeth in mesh at all times, means greater pulling power and longer life.

Gear is made of cast iron, carefully machined, teeth helical machine cut. Extra heavy construction, reduces vibration and insures longer life.

Crank, split type malleable, with large wood grip.

Crank shaft, made of cold rolled steel, straight shank, ground to size.

Swivel feature. Grinder can be tilted upright, or to any desired position, quickly and easily. This is a patented Best Maide feature. Adjustment for swiveling on the back; only necessary to loosen a wing nut and shift grinder to position.

Work rest, adjustable, plain type.

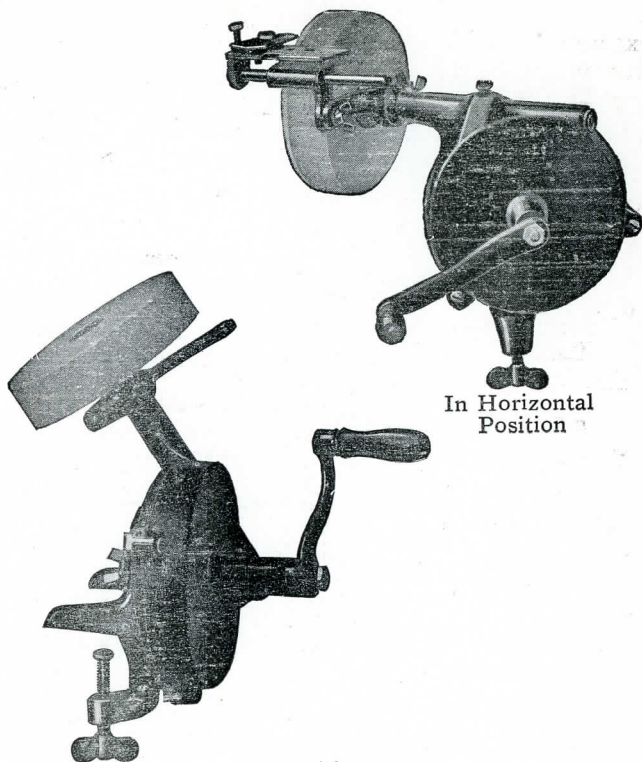
Self closing oiler in pinion bearing, keeps grit out of case.

Grinding wheel of combination grit is made with double recess. It can be reversed and either the fine or the medium side placed on the outside. Double grit wheel gives the user two wheels in one, the medium side for the quick removal of stock and the fine side for finishing work.

Attractive enamel finish.

LUTHER GRINDER MANUFACTURING COMPANY

Best Maide No. 56



In Horizontal
Position

In Upright Position

Regular Equipment

Dimo-Grit Sharpening Wheel 6x1½x7/16 inches
of double grit (medium and fine).
No.12S Adjustable Work Rest.

Extra Equipment

No. 1007B Chisel and Plane Bit Guide.
Net Weight, 15 lbs.
Shipping weight, 24 lbs.
(Note: See other side for mechanical construction.)

MILWAUKEE, WISCONSIN, U. S. A.

Best Maide No. 56

The largest in the Best Maide line.

The grinding wheel shaft does not run parallel with the gear, but is set off at an angle of about 30 degrees, so that any tool can be sharpened without danger of coming in contact with the handle. It is exceptionally high speed, and very strong and heavy in construction.

Mechanical Construction

The Helical Gear and Grinding Wheel Shaft are heavy and accurately machined, insuring exceptionally smooth action.

The Drive Gear is large in diameter, producing very high speed.

The Ball Bearings take up all end thrust and minimize friction.

Extra Wide Bearings insure long life and eliminate vibration.

The One Piece Oil Tight Case contains all the working parts.

The Oil Bath automatically lubricates all wearing parts of the machine.

The Swiveling Device permits adjustment for grinding the most awkward tools.

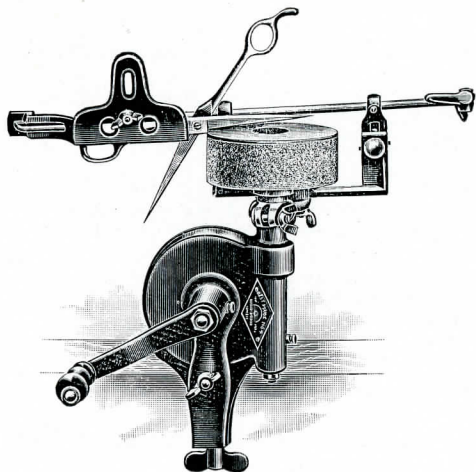
All the above features are patented.

The Dimeo-Grit Sharpening Wheel is of double grit. The body is of medium grit, the face of very fine grit. Fine finishing and coarse grinding can be done on the same wheel.

Finish. Enamel, by special process.

Barber Grinder

No. 1551.



This is the only device of its kind on the market; any barber can sharpen his own shears and hair clippers accurately. No especial skill is required to operate the grinder or the attachments.

Regular Equipment.

No. 551A Shear Holding Attachment.

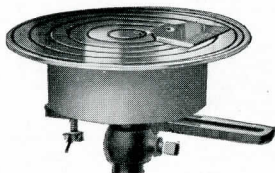
No. 552A Clipper Attachment.

No. 1007B Chisel and Plane Bit Holding Attachment.

4x1½x7-16-inch Fine Carbi-Grit Grinding Wheel.

W9 Wrench, for wheel nut.

Net weight 14 pounds. Shipping weight 23 pounds.



With this grooved clipper plate and a mixture of Dimo-Grit powder mixed with oil, one can sharpen any clipper blade correctly and evenly.

(See other side for mechanical description.)

Mechanical Description.

One-piece gear case. All bearings drilled and reamed in a special jig; insures positive and permanent alignment of gear and pinion. Bearings chambered special for oiling.

Ball bearing end thrust to take up any end play in wheel shaft; enclosed ball race placed in housing on shaft to reduce friction; makes grinder easier to operate, and quieter.

Pinion, or wheel shaft, made of cold rolled steel, machined and ground to size. Helical cut teeth, parts of at least three teeth in mesh at all times; means greater pulling power and longer life.

Gear is made of cast iron, carefully machined, teeth helical machine cut. Extra heavy construction, reduces vibration and insures long life.

Crank. Split type malleable, with large wood grip.

Crank shaft, made of cold rolled steel, straight shank; ground to fit.

Swivel feature. Grinder can be tilted upright, or to any desired position. Quickly and easily adjusted. A patented feature.

Shear holding device gives the shears a uniform, correct bevel. The same bevel is ground on the shear blade from heel to tip. Any desired bevel can be maintained after the attachment has been set in proper position. Special adjustable stop casting raises tip of shear when near the wheel edge to prevent rounding.

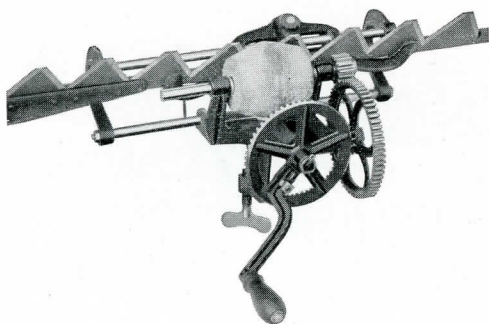
Clipper sharpening is done on the grooved, polished disc, which is placed on the wheel when grinder is tilted as shown in the illustration. Produces a correctly finished job.

Chisel and Plane Bit sharpening becomes a simple job. A good hollow-ground edge can be ground in quick time, by using the special attachment we furnish with the grinder.

We finish the grinder with enamel, but can supply it nickel plated, and will quote price upon request.

Sickle and Tool Grinders

Nos. 82 and 83



Made exclusively for general farm grinding, principally sickle grinding.

High speed—twenty turns of cone to one of crank.

Grinder can be clamped on mower wheel or bench.

Special sickle holding attachment: Six sections can be ground before reclamping bar in attachment, as compared with one in other types. Attachment easy to adjust and operate, grinding under full control at all times.

Machine cut gear and pinion—spur teeth—smooth and easy running.

No. 82 as illustrated. Equipment includes sickle cone of DIMO-GRIT and special sickle holding attachment.

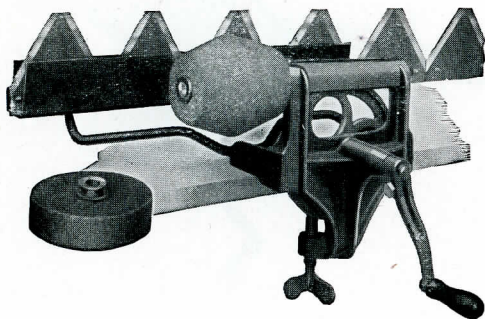
No. 83. The same as No. 82, except that a DIMO-GRIT tool grinding wheel, $4 \times 1\frac{1}{4}$ ", is also included.

Shipping weight No. 82—16 pounds.

Shipping weight No. 83—17 pounds.

Ball Bearing Sickle Grinders

Nos. 84 and 85.



Designed especially for the farmer who wants a good quality hand power sickle and tool grinder. Substantial construction; ball bearing thrust eliminates friction and end play in shaft.

Drive gear and pinion machine cut, helical teeth, parts of three teeth in mesh always; insures longer life and smooth action.

Special sickle holding attachment; easy and simple to grind mower knives.

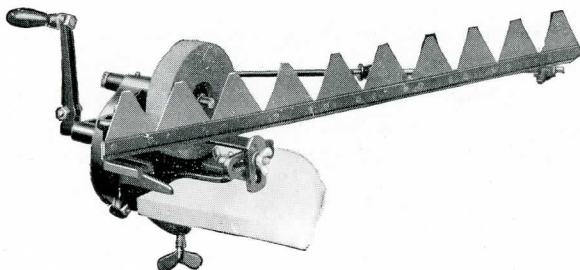
No. 84. Equipped with double-beveled Dimo-Grit sickle cone, also sickle holding attachment.

No. 85 (as illustrated). Same as No. 84, including a 4" Dimo-Grit tool grinding wheel.

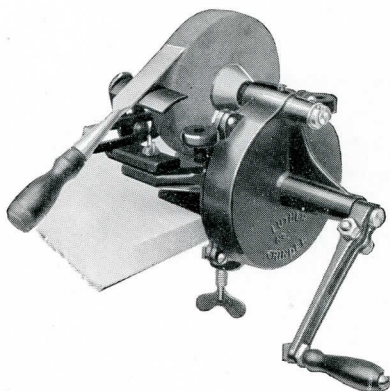
Weight No. 84—16 pounds.

Weight No. 85—17 pounds.

Tool and Sickle Grinder No. 86



A heavy duty, practical, grinder for tool and sickle sharpening. Designed especially for general grinding on the farm or ranch, including axes, scythes, chisels, plane irons, mower sickles, etc. This grinder can be mounted quickly on a mower wheel or bench; especially efficient for sickle grinding.



Equipment.

One 6x1 $\frac{1}{4}$ x1-inch medium Dima - Grit grinding wheel.

No. 18B sickle holding attachment.

No. 7A adjustable work rest.

Net weight 22 lbs.

Shipping weight 27 lbs.

(See other side for mechanical description.)

Mechanical Description.

One-piece gear case. All bearings drilled and reamed out of solid metal in a special jig. Gear and pinion cannot become out of alignment as bearings cannot shift. Bearings are large, and afford the best known bearing contact of steel against cast iron. With proper lubrication the grinder will last a lifetime in service.

Gear. Heavy construction, fully machined. Teeth are helical cut—parts of three teeth are in mesh at all times, which means smooth, quiet action, steady pulling power, and with the lowest possible wear and tear on the gear and pinion teeth. Gear ratio 14 to 1.

Pinion or wheel shaft. Accurately machined; made from cold rolled steel bar stock. Teeth machine cut to mesh with gear—helical type, ground to size.

Handle shaft, also of cold rolled steel—ground to size.

Crank, split malleable, with large wood grip.

Clamp, good quality grey iron, heavy construction. Made so grinder can be mounted on mower wheel or bench.

Work rest, adjustable, for tool grinding, etc.

Sickle holding attachment, rod type, provides a modern method of sharpening any size or type of sickle made. The grinding is done on the side of the wheel. The section can be ground to any desired bevel, correctly, from tip to the bar. An easy one-man grinding job to sharpen a sickle bar.

Hummer Grinder

No. 271



The most popular and efficient foot power grinder made. A practical grinder for general grinding in the shop, around the farm or ranch, in construction and road building gangs. Grinder is made entirely of metal. The head can be swiveled to any horizontal position. Machine cut worm gear and shaft, ratio 24 to 1, bevel gear drive.

(See other side for mechanical description.)

LUTHER GRINDER MANUFACTURING COMPANY

Mechanical Description.

Grinder is all-metal construction throughout. Firmly braced and supported. Adjustable iron seat.

Swiveling head—a patented feature—loosen a set screw in the base of the head and the entire upper assembly can be swung to any horizontal position, making it more convenient for grinding the most awkward shaped tools.

All castings of best quality grey iron. Bearings drilled and reamed, in special fixtures. Extra long bearings, large oil retaining surfaces insure long life and ease of operation.

Self closing spring oilers provided for all bearings, keep grit from entering bearings.

Overhanging cupped flanges also protect bearings.

Ball bearings used in head, make grinder easier to operate, reduce friction to a minimum.

Power transmitted through spur-bevel pedal gear and pinion through a worm cut gear to wheel shaft; gear ratio 24 to 1; sufficient power for all types of grinding.

Sickle and Disc attachment provides the most modern method of sharpening. Sickle sharpening is done on the side of the wheel, using the long rod as a support. Disc sharpening is made easy with the use of the special disc holding device, any size disc can be ground correctly.

Overall height 42 inches. Net weight 60 pounds. Shipping weight 80 pounds. Packed KD in crate.

Equipment.

One 70 grain (medium) 6x1¼x1 Dimeo-Grit Wheel R1S 2x½-inch.

One 36 grain (coarse) 6x1¼x1 Dimeo-Grit Wheel R1S 2x½-inch.

One 17B Combination Sickle and Disc Attachment.

One R92 Drop Tool Rest.

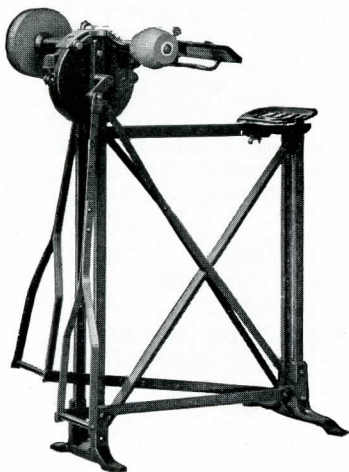
One R69G Plain Tool Rest.

The 1007H Chisel and Plane Bit Sharpening Attachment can be furnished for this grinder, as extra equipment.

MILWAUKEE, WISCONSIN, U. S. A.

Farm Special Grinders

Nos. 79 and 80.



A medium priced all-around grinder for grinding work of all kinds, including axes, scythes, sickles, discs, chisels, knives of various types, drills, etc.

All-metal construction, firmly braced, well built.

Note the special "off-set" feature of the grinding wheels. One wheel acts as a fly-wheel or balance wheel, making the grinder smoother and easier running.

(See other side for mechanical description.)

Mechanical Description.

The construction of the grinder is metal throughout. Frame is well braced. Broad, adjustable metal seat.

Bearings drilled and reamed—self closing spring oilers for bearings, keep out dirt and grit.

Gear is of heavy construction, machined, helical cut teeth, parts of three teeth in mesh always, as compared with only one in the spur tooth type.

Wheel shafts made from cold rolled steel bars, machined, ground to size, helical cut teeth.

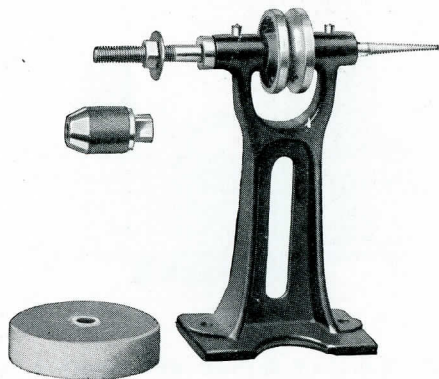
Reversible head enables the operator to change the position of the grinding wheels. Top casting, or head in which shafts are housed can be reversed quickly by removing hexagon cap screws which fit into side of housing. This is an exclusive feature not found in any other grinder.

Special sickle holding attachment (for No. 79 only), slide-rod type, permits five sections to be ground before reclamping bar in holder. Easily adjusted; grinding controlled by operator at all times. A one man grinding job for any length or type bar.

No. 79 (illustrated) is equipped with the special sickle holding attachment, one double beveled sickle cone, one 6x1 $\frac{1}{4}$ x1 70 grain or medium DIMO-GRIT grinding wheel, and one adjustable work rest. Net weight 50 pounds; shipping weight 75 pounds. Overall height 40 inches.

No. 80 is similar, general construction the same, except equipment includes one 70 grain (medium) and one 36 grain (coarse) DIMO-GRIT grinding wheel, with adjustable work rest for each wheel. Net weight 50 pounds; shipping weight 70 pounds. Overall height 40 inches.

Polishing Heads No. 300 Series



A series of well constructed polishing heads designed particularly for light accurate work.

Mechanical Specifications

Arbor Shaft. A steel arbor shaft, accurately machined, $\frac{3}{8}$ " in diameter and $7\frac{1}{2}$ " long, tapered and threaded on one end so that a polishing wheel may be attached; the other end is threaded and straight so that a self-adjusting chuck may be used.

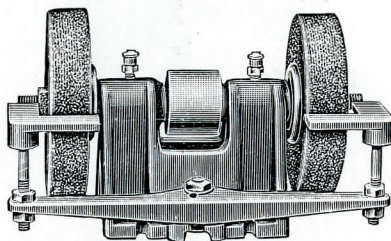
Pulley. $1\frac{3}{4}$ " in diameter, $\frac{3}{4}$ " wide, grooved to take a round belt up to $\frac{1}{4}$ " in diameter. Will also take a flat belt up to $\frac{3}{4}$ " in width.

Base. Solidly constructed with accurate, well oiled bearings. The base is 7" high and occupies about nine square inches of bench space. The base is designed so that the belt may be driven either from above, either side or from below.

Equipment

- No. 300. Head only, without chuck or wheels.
- No. 301. Head and chuck only.
- No. 302. Head and 2" wheel only.
- No. 303. Head and 3" wheel only.
- No. 304. Head and 4" wheel only.
- No. 300A. Chuck only.

No. 306 Power Grinder (Light)



For the mechanic or farmer who wants a small belt driven bench grinder suitable for grinding small tools, axes, plane bits, chisels, knives, etc.

Equipment includes:

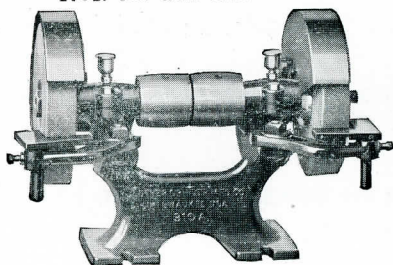
- One Medium $6 \times 1\frac{1}{4} \times 1$ DIMO GRIT wheel.
- One Coarse $6 \times 1\frac{1}{4} \times 1$ DIMO GRIT wheel.
- Two adjustable work rests.

Details of construction:

- Dimensions of shaft $10\frac{5}{8} \times \frac{3}{4}$ ".
- Dimensions of pulley $2 \times 1\frac{3}{4}$ ".
- Distance between wheels $6\frac{5}{8}$ ".
- Height of shaft above bench 4".
- Bench space required 6×6 ".
- Turned wheel flanges 3" diameter.
- Recommended operating speed between 2546 and 3183 RPM of grinding wheels.
- Large, heavy, bearings; pipe thread oilers; enamel finish.
- Shipping weight 17 lbs.

Dimo-Grit Power Grinders

Nos. 310 and 309.



Regular Equipment

Two Dimo-Grit wheels, one medium and one coarse.

No. 8A Work Rests as illustrated (two).

Extra Equipment

No. 906A Twist Drill Sharpening Attachment

No. 925AC Sickle and Disc Sharpening Attachment.

No. 998 Flexible Shaft Grinding Attachment.

No. 10B Wheel Guards.

No. 37 Column.

Dimo-Grit Grinder No. 310

Size of wheels.....7x1¼x1

Net weight 30 lbs.

Shipping weight 40 lbs.

Dimo-Grit Grinder No. 309

Size of wheels 7x1¼x1

Net weight 29 lbs.

Shipping weight 39 lbs.

Dimo-Grit Grinder No. 310 is equipped with a tight and loose pulley.

Dimo-Grit Grinder No. 309 is equipped with a tight pulley only.

Note: See other side for mechanical construction.

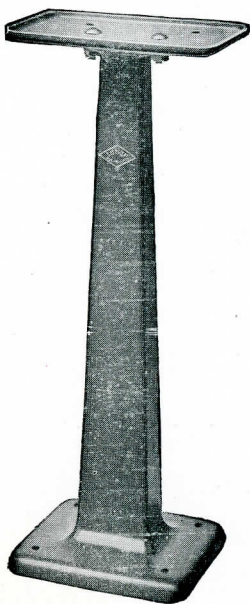
No. 37 Column

A strong, serviceable column for use with the Nos. 310 and 309 Power Grinders.

This column stands 32 inches high and covers a floor space 10x11 inches. The top plate is separate and is bolted to the main column with two bolts; holes are made in the plate to hold the grinder to it.

Finish. Enamel, by special process.

Approximate weight of complete column is 55 lbs.



LUTHER GRINDER MANUFACTURING COMPANY

Dimo-Grit Grinders Nos. 310 and 309 are very serviceable, medium weight grinders, recommended for general shop, farm, garage and machinist's use.

The Base is broad and heavy, thus eliminating vibration.

The Work Rests are adjustable and can be used as hand rests or tool rests.

The Oil Cups and Overhanging Flanges keep dirt and grit away from the bearings.

The Bearings are babbitted, giving long life and ample oil retaining surface.

Finish. Enamel, by a special process.

Diameter of Shaft within bearings, $\frac{3}{4}$ inch.

Diameter of Shaft between flanges, $\frac{5}{8}$ inch.

Diameter of Arbor Hole in wheels, 1 inch.

Size of Pulleys, $2\frac{1}{2} \times 2\frac{1}{2}$ inches.

Length of Shaft, 15 inches.

Distance between wheels, 10 inches.

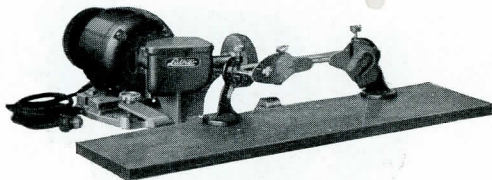
Height of Shaft Above Bench, $6\frac{1}{4}$ inches.

Bench Space Required, $6 \times 10\frac{1}{2}$ inches.

Recommended Speed, 2272 R. P. M.

Electric Skate Grinder

No. 340 Model "B".



Motor same type as furnished with bench grinder No. 345.

Direct positive gear drive from motor shaft to grinding wheel through bevel gears. Power loss reduced to a minimum. Gears running in oil in tight case insures long life, easy and quiet operation.

Motor can be removed from sub-base and used as a grinder and polisher after skate grinding season is over.

Any make or type skate can be correctly hollow ground; holding clamps designed to fit all types.

EQUIPMENT:

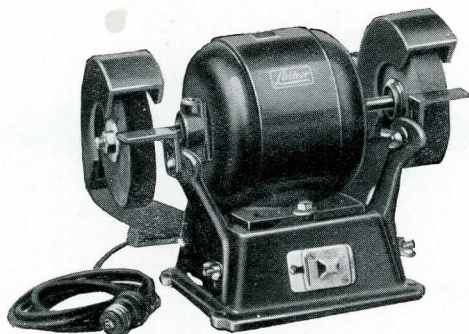
For skate grinding, we furnish a 5x1x1" DIMO-GRIT wheel of proper grain and grade for putting on a good finish as well as for quick removal of stock.

A 6" unsewed muslin buffer included for outer end of motor shaft.

Cord and plug same as on No. 345.

Electric Bench Grinder

No. 345.



A good Bench grinder for sharpening tools of different types, also for buffing or polishing.

MOTOR:

Full $\frac{1}{4}$ H. P. ventilated type, with extended shafts.
Alternating current, 60 cycles, 110 volts, single phase, 1750 R. P. M.

Bearings oversize, interchangeable, sleeve type.

EQUIPMENT:

Guards furnished as illustrated only when requested; substantial cast iron construction.

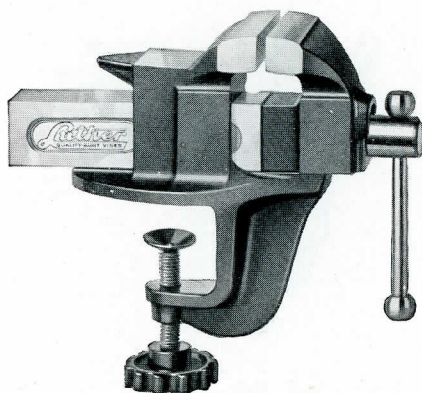
Work rests, adjustable.

Nine feet of cord and two piece plug.

High grade push type switch in sub-base.

One 6" diameter by $\frac{1}{2}$ " face grinding wheel.

One 6" unsewed muslin buffer.



Luther QUALITY-BUILT Vises

A handy, clamp-type vise. A necessity around the home, garage, work shop, for repair work and odd jobs; especially adapted for radio and auto work.

Attractive enamel finish; tops and sides of jaws polished.

Slides are milled, ground and carefully fitted into standing jaw.

Screw is cut out of bar stock, with a husky square, Acme thread.

Heavy brass nut—insures long life.

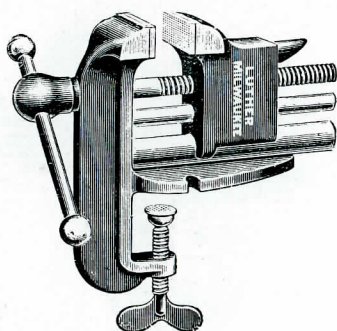
A special LUTHER feature is the panel type movable jaw, which adds to the appearance and strength of the vise.

Made in four sizes:

Number	V91 $\frac{1}{2}$	V92	V92 $\frac{1}{2}$	V93
Width jaws	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Opening of jaws.....	2	2 $\frac{1}{4}$	3	3 $\frac{1}{4}$
Net weight	3 $\frac{1}{2}$	6	9	11 $\frac{1}{2}$
Shipping weight	4	7	9 $\frac{1}{2}$	12 $\frac{1}{2}$

Packed one in a carton.

LUTHER GRINDER MANUFACTURING COMPANY



The construction of this type of vise is different than that of our Quality-Built line. The movable jaw travels back and forth on the screw, while the front or main casting is stationary. The movable jaw is supported and guided by heavy steel guides; prevents jaws becoming sprung or out of alignment.

The vise is built for heavy duty, and is well adapted for automobile, radio and general household use.

One piece feed screw, machine cut threads; steel cross bar. Steel clamp screw.

Enamel finish.

Made in five sizes:

Vise No.	V17	V20	V22	V25	V30	V70*
Width jaws.....	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	3	3
Spread jaws.....	2	2 $\frac{1}{4}$	2 $\frac{3}{4}$	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$
Net weight.....	3 $\frac{1}{2}$	5 $\frac{3}{4}$	7 $\frac{1}{2}$	10 $\frac{3}{4}$	15 $\frac{3}{4}$	16
Shipping weight..	3 $\frac{3}{4}$	7	8 $\frac{1}{2}$	12 $\frac{1}{2}$	16 $\frac{3}{4}$	16 $\frac{1}{2}$

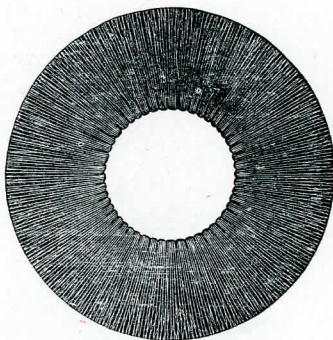
*Bench vise, similar to V30, but without clamp screw feature.

MILWAUKEE, WISCONSIN, U. S. A.

Dimo-Steel Wire Wheel Brushes

Dimo-Steel Wire Wheel Fillers

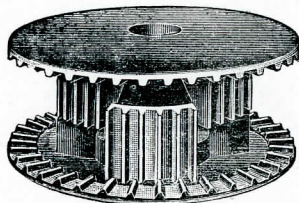
No.	Diam.	Gauge Wire
250	15 in.	No. 33
251	12 in.	No. 34
252	10 in.	No. 35
253	8 in.	No. 36
254	7 in.	No. 36
255	6 in.	No. 36



Dimo-Steel Interlocking Hubs

No.	Diam. Hub Flange	Arbor Hole, Size	
150	6 in.	1 in.	For 15-in. Filler
151	5 in.	1 in.	For 12-in. Filler
152	5 in.	1 in.	For 10-in. Filler
153	4 in.	1 in.	For 8-in. Filler.
154	3 in.	1 in.	For 7-in. Filler
155	3 in.	1 in.	For 6-in. Filler

Arbor Holes otherwise than standard will be furnished when possible upon request.



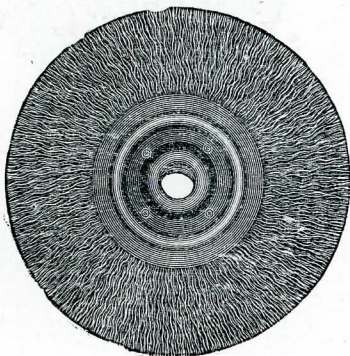
No time is lost in mounting wheel on spindles. Insert complete filler in the hub. Then place the hub on the spindle, tighten up the nut and the brush is ready for use.

Dimo-Steel Wire Wheel Brushes

These brushes are made to stand the hardest wear and to give efficient service. The wires are bunched near the hub, thus eliminating vibration and crystalization of single wires.

The filler is made to fit the hub and no time is lost in mounting wheels on spindles. Recommended for use in machine shops, garages and on the farm.

Dimo "Steel Clad" Wire Wheel Brushes



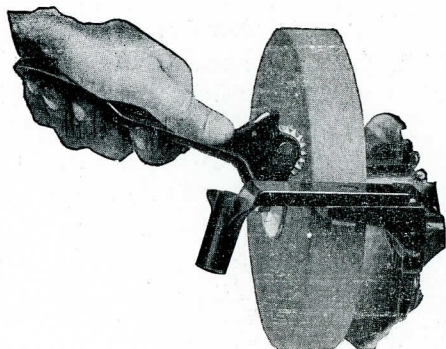
Each section is a complete unit in itself, ready to mount on the spindle. A very simple and economical method of building up a brush of any required width of face without the use of metal hubs.

		Approx.	
	Diam.	Width	Face Gauge Wire
No. 130	15 in.	7/16 in.	No. 33
No. 131	12 in.	3/8 in.	No. 34
No. 132	10 in.	3/8 in.	No. 35
No. 133	8 in.	3/8 in.	No. 36
No. 134	7 in.	5/16 in.	No. 36
No. 135	6 in.	5/16 in.	No. 36

When ordering please state size arbor hole. Regularly made with the following standard sizes of arbor holes.

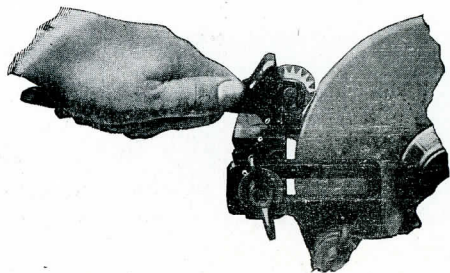
No. 130	1 in.	1 1/4 in.	1 1/2 in.	1 3/4 in.	2 in.
No. 131	3/4 in.	1 in.	1 1/4 in.	1 1/2 in.	1 3/4 in.
No. 132	3/4 in.	1 in.	1 1/4 in.	1 1/2 in.	1 3/4 in.
No. 133	1/2 in.	3/4 in.	1 in.	1 1/4 in.	
No. 134	1/2 in.	3/4 in.	1 in.	1 1/4 in.	
No. 135	1/2 in.	3/4 in.	1 in.	1 1/4 in.	

Wheel Dresser No. 141



Through misuse a wheel sometimes becomes gummed up or worn unevenly. When a wheel is in this condition, it is impossible to do an accurate job of grinding. With one of these wheel dressers any wheel can be put in shape again in a very few minutes. Can be used to dress any face of the wheel and will cut any abrasive substance no matter how hard it may be.

Hold the wheel dresser against the face of the wheel and revolve the wheel rapidly. It requires no skill whatever to put any wheel in first-class shape.



The Use and Care of Wheels

Running Wheels at Slow Speed is a common mistake and a costly one. The Dymo-Grit wheels with which Luther grinders are equipped are high speed abrasives, therefore, to get the best results use high speed and very light pressure at all times. By employing these methods there is no danger of drawing temper or injuring even the finest tool.

Never use a wheel that has become gummed up with grease or dirt, as it will wear unevenly and not grind rapidly.

How to Clean Wheels. Pour gasoline or benzine (never kerosene) on the wheel and scrub with a piece of burlap or a rag, then revolve the wheel rapidly.

When sharpening a tool, move it from side to side on the work rest to distribute the grinding over the entire face of the wheel. Sharpening on one place on the wheel wears it unevenly.

Never use a wheel that has become worn and uneven. When a wheel is in this condition it is impossible to do accurate work. A wheel dresser is an inexpensive tool by means of which any wheel can be kept in first-class shape.

Grinding wheels should fit freely on the spindles; they should not be forced on, nor shall they fit too loose.

When tightening clamping nuts care should be taken to tighten same only enough to hold the wheel firmly, otherwise the clamping strain is apt to crack the wheel.

PRICE LIST

LUTHER GRINDER MFG. CO.

MILWAUKEE, WIS.

U. S. A.

EFFECTIVE NOVEMBER 25, 1924

Prices, F. O. B. Milwaukee. Terms 30 days, 2% discount 10 days.
Cancels all previous lists. Subject to change without notice.

No.	Article	Quan.	List Price	Net Wgt. Lbs.	Ship. Wgt. Lbs.	Net Prices
TOOL GRINDERS						
14	(4M) Mechanics' Special.	Each	\$ 6.75	8	10	.....
15	(5M) Mechanics' Special.	Each	8.00	10	15	.....
16	(6M) Mechanics' Special.	Each	10.00	12 $\frac{1}{2}$	21 $\frac{1}{2}$	.....
17	(7M) Mechanics' Special.	Each	14.00	23	36	.....
34	Domestic Grinder	Each	2.50	3 $\frac{1}{4}$	4 $\frac{3}{4}$	.....
24	Standard Grinder	Each	3.50	5	6 $\frac{1}{2}$	.....
25	Standard Grinder	Each	4.00	5 $\frac{1}{2}$	7	.....
26	Standard Grinder	Each	5.00	8	14	.....
27	Standard Grinder	Each	6.00	10	16	.....
50	Best Maide Grinder.....	Each	9.50	10	14	.....
51	Best Maide Grinder.....	Each	10.00	10 $\frac{1}{2}$	15	.....
52	Best Maide Grinder.....	Each	11.00	11 $\frac{1}{2}$	15 $\frac{1}{2}$	.....
SICKLE GRINDERS						
82C	Sickle Grinder	Each	6.50	12	22	.....
82CW	Sickle Grinder	Each	7.50	13 $\frac{1}{2}$	23	.....
86	Sickle Grinder	Each	10.00	22	28	.....
271	Hummer Grinder	Each	30.00	60	78	.....
79	Farm Special	Each	20.00	50	65	.....
80	Utility	Each	20.00	50	65	.....
177	Railway	Each	22.00	29 $\frac{1}{2}$		.....
1551	Barber Grinder	Each	20.00	14	23	.....
POWER GRINDERS						
306	Power Grinder	Each	8.00	16	19	.....
307	Power Grinder	Each	8.00	18	21	.....
309	Power Grinder	Each	15.00	29	39	.....
310	Power Grinder	Each	16.00	30	42	.....
315	Power Grinder	Each	37.50	80	92	.....
316	Power Grinder	Each	38.50	81	98	.....

(over)

No.	Article	Quan.	List Price	Net Wgt. Lbs.	Ship Wgt. Lbs.	Net Prices
37	Column (for 309-310 Power)	Each	12.00	48	49	.....
39	Column (for 315-316 Power)	Each	25.00	100	110	.....
340	Electric Skate Grinder...	Each	70.00	50	60	.....
345	Electric Buffer & Polisher	Each	60.00	37	50	.....
VICES						
V91½	Vise	Each	1.70	4	5	.....
V92	Vise	Each	2.35	6½	7½	.....
V92½	Vise	Each	3.20	10	11	.....
V93	Vise	Each	4.50	13	14	.....
ATTACHMENTS						
10B	Guards (for 309-310 Power)	Set	4.00	.....	.....	.....
11B	Guards (for 315-316 Power)	Set	5.00	.....	.....	.....
17A	Sickle and Disc Att. (for 271 Hummer)	Each	2.00	2	3	.....
141	Wheel Dresser	Each	.50	½	1	.....
184A	Adze Attachment	Each	2.00	1	.....	.....
186A	Twist Drill	Each	4.00	1¾	.....	.....
187A	Flat Drill	Each	5.00	3	.....	.....
188A	Die and Plain Bit Holder.	Each	2.00	1½	.....	.....
23A	Sickle Attachment	Each	3.00	4¾	5½	.....
925AC	Sickle and Disc Attach...	Each	5.00	5	6	.....
1007H	Chisel and Plane Guide..	Each	2.00	3½	5	.....
1007B	Chisel and Plane Guide..	Each	2.00	3½	5	.....
T20	Chisel and Plane Guide..	Each	2.00	3½	5	.....
SHARPENING STONES						
223	Razor Hone	Doz.	12.00	.....	.....	.....
238	Pocket Hone	Doz.	3.60	.....	.....	.....
251	Scythe Stone Special....	Doz.	3.60	.....	.....	.....
252	Scythe Stone, Heavy....	Doz.	3.60	.....	.....	.....
POLISHING WHEELS						
5 inch	Felt Polishing Wheels.....	Each	1.80	.....	.....	.....
7 inch	Felt Polishing Wheels.....	Each	3.00	.....	.....	.....
5 inch	Canvas Polishing Wheels...	Each	1.50	.....	.....	.....
FORD CIRCULATING PUMP						
575	Flood Pump	Each	5.00	.....	.....	.....

